

IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE

**Declaration and Power of Attorney**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I hereby claim the benefit under Title 35, United States Code, 119(e) of any United States provisional application(s) identified below:

Provisional application No. 60/263256, filed on January 22, 2001.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled **Data Transmission Via Direct Modulation Of A Mid-IR Laser** the specification of which is attached hereto.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by an amendment, if any, specifically referred to in this oath or declaration.

I acknowledge the duty to disclose all information known to me which is material to patentability as defined in Title 37, Code of Federal Regulations, 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

None

I hereby claim the benefit under Title 35, United States Code, 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, 112, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

None

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

20-29-1-3-35-14-1

I hereby appoint the following attorney(s) with full power of substitution and revocation, to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith:

Kenneth M. Brown	(Reg. No. 37590)
Donald P. Dinella	(Reg. No. 39961)
Martin I. Finston	(Reg. No. 31613)
Barry H. Freedman	(Reg. No. 26166)
Julio A. Garceran	(Reg. No. 37138)
Jimmy Goo	(Reg. No. 36528)
Stephen M. Gurey	(Reg. No. 27336)
John M. Harman	(Reg. No. 38173)
Matthew J. Hodulik	(Reg. No. 36164)
Michael B. Johannessen	(Reg. No. 35557)
Irena Lager	(Reg. No. 39260)
Reitseng Lin	(Reg. No. 42804)
John B. MacIntyre	(Reg. No. 41170)
Christopher N. Malvone	(Reg. No. 34866)
John F. McCabe	(Reg. No. 42854)
Michael A. Morra	(Reg. No. 28975)
Gregory J. Murgia	(Reg. No. 41209)
Claude R. Narcisse	(Reg. No. 38979)
Joseph J. Opalach	(Reg. No. 36229)
Neil R. Ormos	(Reg. No. 35309)
Jack R. Penrod	(Reg. No. 31864)
Gregory C. Ranieri	(Reg. No. 29695)
Eugene J. Rosenthal	(Reg. No. 36658)
Ronald D. Slusky	(Reg. No. 26585)
Ozer M. N. Teitelbaum	(Reg. No. 36698)
Charles L. Warren	(Reg. No. 27407)
Eli Weiss	(Reg. No. 17765)

Please address all correspondence to the Docket Administrator (Rm. 3J-219), Lucent Technologies Inc., 101 Crawfords Corner Road, Holmdel, New Jersey 07733. Telephone calls should be made to John F. McCabe by dialing 908-582-6866.

Full name of 1st joint inventor: Clyde George Bethea

Inventor's signature Clyde George Bethea Date June 26, 2001

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20-29-1-3-35-14-1

Full name of 2<sup>nd</sup> inventor: Federico Capasso

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

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2025 RELEASE UNDER E.O. 14176

20-29-1-3-35-14-1

Full name of 3<sup>rd</sup> inventor: Alfred Yi Cho

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence: Summit, Union County, New Jersey

**Citizenship:** United States of America

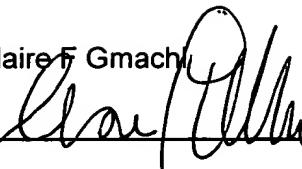
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ELABORATION OF THE

20-29-1-3-35-14-1

Full name of 4<sup>th</sup> inventor: Claire F Gmach

Inventor's signature



Date 6/22/01

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SEARCHED SERIALIZED FILED

20-29-1-3-35-14-1

Full name of 5<sup>th</sup> inventor: Albert Lee Hutchinson

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20-29-1-3-35-14-1

Full name of 6<sup>th</sup> inventor: Rainer Martini

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

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Citizenship: Germany

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20-29-1-3-35-14-1

Full name of 7<sup>th</sup> inventor: Roberto Paiella

Inventor's signature  Date 6/25/01

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Citizenship: Italy

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20-29-1-3-35-14-1

20-29-1-3-35-14-1

Full name of 8<sup>th</sup> inventor: Deborah Lee Sivco

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence: Warren, Somerset County, New Jersey

Citizenship: United States of America

Post Office Address: 16 Plainfield Avenue  
Warren, New Jersey, 07059

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20-29-1-3-35-14-1

Full name of 9<sup>th</sup> inventor: Alessandro Tredicucci

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

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SEARCHED  
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SERIALIZED  
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APR 29 1966  
U.S. GOVERNMENT PRINTING OFFICE: 1964

20-29-1-3-35-14-1

Full name of 10<sup>th</sup> inventor: Edward Anthony Whittaker

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Post Office Address: 204 Garden Street  
Hoboken, New Jersey, 07030

20-29-1-3-35-14-1

C.G. Beth 5-68-105-20-29-1-3-35-14-1

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Irena Lager	(Reg. No. 39260)
Reitseng Lin	(Reg. No. 42804)
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Eugene J. Rosenthal	(Reg. No. 36658)
Ronald D. Slusky	(Reg. No. 26585)
Ozer M. N. Teitelbaum	(Reg. No. 38698)
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Full name of 1st joint inventor: Clyde George Bethea

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

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G. Bethea 25-86-105-

20-29-1-3-35-14-1

Full name of 2<sup>nd</sup> inventor: Federico Capasso

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

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C.G. Bethea 25-66-105-

20-29-1-3-35-14-1

Full name of 3<sup>rd</sup> inventor: Alfred Yi Cho

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

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Summit, New Jersey, 07901

2012165638-005/012

G. Bethea 25-86-105-

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**Full name of 4<sup>th</sup> Inventor:** Claire F Gmachl

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G. Bethea 25-66-105-

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Full name of 5<sup>th</sup> inventor: Albert Lee Hutchinson

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Full name of 6<sup>th</sup> inventor: Rainer Martini

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**G. Bethea 25-68-105-****20-29-1-3-35-14-1****Full name of 7<sup>th</sup> inventor: Roberto Paiella****Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_****Residence: Short Hills, Essex County, New Jersey****Citizenship: Italy****Post Office Address: 806 Morris Turnpike  
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G. Bethea 25-66-105-

20-29-1-3-35-14-1

**Full name of 8<sup>th</sup> inventor: Deborah Lee Sivco**

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

**Residence:** Warren, Somerset County, New Jersey

**Citizenship:** United States of America

**Post Office Address:** 16 Plainfield Avenue  
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J.G. Bethea 25-66-105-

20-29-1-3-35-14-1

**Full name of 9<sup>th</sup> inventor: Alessandro Tredicucci**

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G. Bethea 25-66-105-

20-29-1-3-35-14-1

Full name of 10<sup>th</sup> inventor: Edward Anthony WhittakerInventor's signature Edward A. Whittaker Date 6/25/01

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Citizenship: United States of America

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65555762 65555763